COURSE DETAIL

INFECTIOUS DISEASES AND GLOBAL PUBLIC HEALTH
Country Netherlands
Host Institution Maastricht University – University College Maastricht
Program(s) University College Maastricht
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Health Sciences Biological Sciences
UCEAP Course Number 121
UCEAP Course Suffix
UCEAP Official Title INFECTIOUS DISEASES AND GLOBAL PUBLIC HEALTH
UCEAP Transcript Title INFECTIOUS DISEASES
UCEAP Quarter Units 6.00
UCEAP Semester Units 4.00

Course Description

This course studies infectious diseases in a multidisciplinary way with a global public health emphasis. The first part introduces basic knowledge of the disease processes and the human immune responses. The second part focuses on three types of viruses that cause zoonotic infectious diseases in the modern era: retroviruses (i.e., HIV/AIDS), influenza viruses (i.e., H5N1, H1N1, H7N9), and coronaviruses (i.e., SARS, MERS, COVID-19). The focus of the discussion is on the biology of host-pathogen interactions, the basic epidemiology of infectious diseases, and possible countermeasures, including disease surveillance and vaccine development. The importance of social determinants of infectious diseases is also reviewed. The global impact of antimicrobial resistance (AMR) will be explored in the third part of the course. Factors affecting drug use, both on macro and micro levels, are discussed and analyzed. The course ends by highlighting the "One Health" concept (i.e., human-animal-environment interfaces) in responding to zoonotic diseases and AMR.

Language(s) of Instruction
English

Host Institution Course Number
SCI2042

Host Institution Course Title
INFECTIOUS DISEASES AND GLOBAL PUBLIC HEALTH

Host Institution Course Details
https://www.maastrichtuniversity.nl/education/bachelor/university-college-maast...

Host Institution Campus
Maastricht University

Host Institution Faculty
University College Maastricht

Host Institution Degree
Host Institution Department Sciences
Course Last Reviewed 2022-2023

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